

Title (en)

A SYSTEM FOR ON-LINE PROPERTY PREDICTION FOR HOT ROLLED COIL IN A HOT STRIP MILL

Title (de)

SYSTEM ZUR ONLINE-EIGENSCHAFTSVORHERSAGE FÜR WARMGEWALZTE BUNDE IN EINEM WARMBAND-WALZWERK

Title (fr)

SYSTEME DE PREDICTION EN LIGNE DE PROPRIETES DE BOBINE LAMINEE A CHAUD DE TRAIN A BANDES CHAUD

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004085087A2] This invention provides a system for on-line property prediction for hot rolled coils in a hot strip mill of a steel plant. The system comprises a unit (5) for capturing the chemistry from the steel making stage and providing the data on rolling schedule. Field devices (FD1 ... FDn) are provided at the instrumentation level for measuring process parameters during hot rolling. A programmable logic controller (1) is used for acquiring data of measured parameters from the field devices and feeding the data to a processor (2). Means (3) is provided for conversion of the measured data from time domain To space domain using segment tracking. A computation module (4) processes the converted space domain data for predicting mechanical properties along the length and through the thickness of the strip being rolled. A display unit (6) displays the predicted properties. The data obtained can be stored in a data warehouse (8) for future use. A unit (7) provided in the system can collect the predicted properbes and feed the same to the scheduling unit (5).

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Citation (search report)

See references of WO 2004085087A2

Cited by

EP3660173A1; DE102018220382A1; WO2020049338A1; WO2020049515A1

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